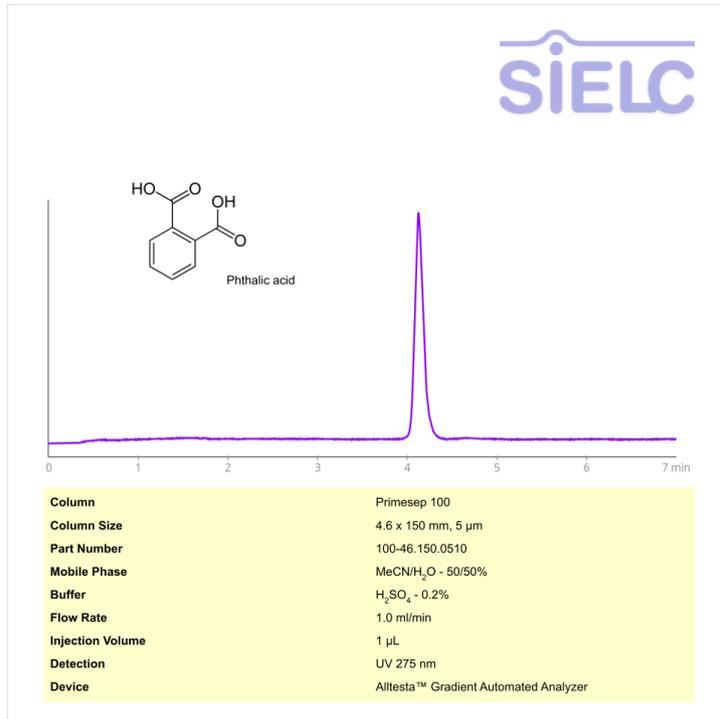


HPLC Method for Analysis of Phthalic acid on Primesep 100 Column on Alltesta™



High Performance Liquid Chromatography (HPLC) Method for Analysis of Phthalic Acid

Phthalic acid is an aromatic dicarboxylic acid with the chemical formula C₆H₄(CO₂H)₂. It consists of a benzene ring with two carboxylic acid groups (-COOH) attached to adjacent carbon atoms (in the ortho position). It is mainly produced by the oxidation of naphthalene or o-xylene. In the form of phthalic anhydride, it is used as an industrial chemical. It is primarily used to make phthalates, which are esters of phthalic acid.

Phthalic Acid can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with phosphoric acid as a buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 50%
Buffer	Sulfuric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm

Quelle: <https://sielc.com/hplc-method-for-analysis-of-phthalic-acid>